Stealth Microwave
INCORPORATED

Model SM1819-52LD

1805 - 1880 MHz
160 Watt Power Amplifier

The **SM1819-52LD** is an 1805 - 1880 MHz LDMOS amplifier designed for various military and commercial applications.



Features

- Mis-Match Protected with Built-In Isolator
- Single Power Supply
- Temperature Compensation

Options

- Linear Forward/Reverse Power Detection (AD8362 Log amps)
- Temperature Monitor
- High speed Switching for TDD with 1 <µs rise/fall time
- Logic On/Off Control
- Heatsink

Configurations

- Module
- 19" Rack
- Bench Top Lab Unit

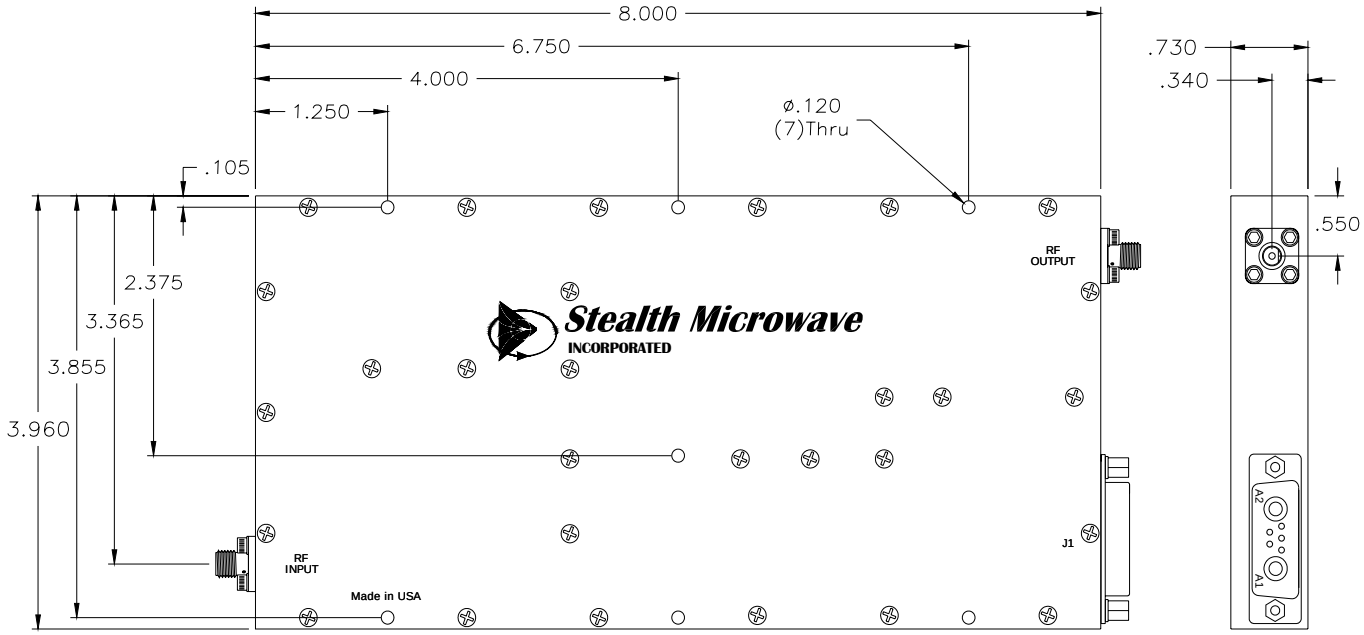
Parameter	Specification
Frequency Range	1805 - 1880 MHz
RF Power @ 1dB compression point	52 dBm (typ.)
Linear Gain	48 dB ± 1 dB
Gain Flatness over Full Band	± .5 dB
Input VSWR	-16 dB
Output VSWR (Built-in Isolator)	-16 dB
DC Input Voltage	+ 28 Volts
DC Current Operating	16 A @ +52 dBm (max.) 2.5 A @ +37 dBm.
Mechanical Dimensions Without Heatsink	8.0 x 4.0 x .73 inches
RF Connectors	SMA Female
DC Connector	7W2 D-Sub
Operating Temperature	-30º C to +85º C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

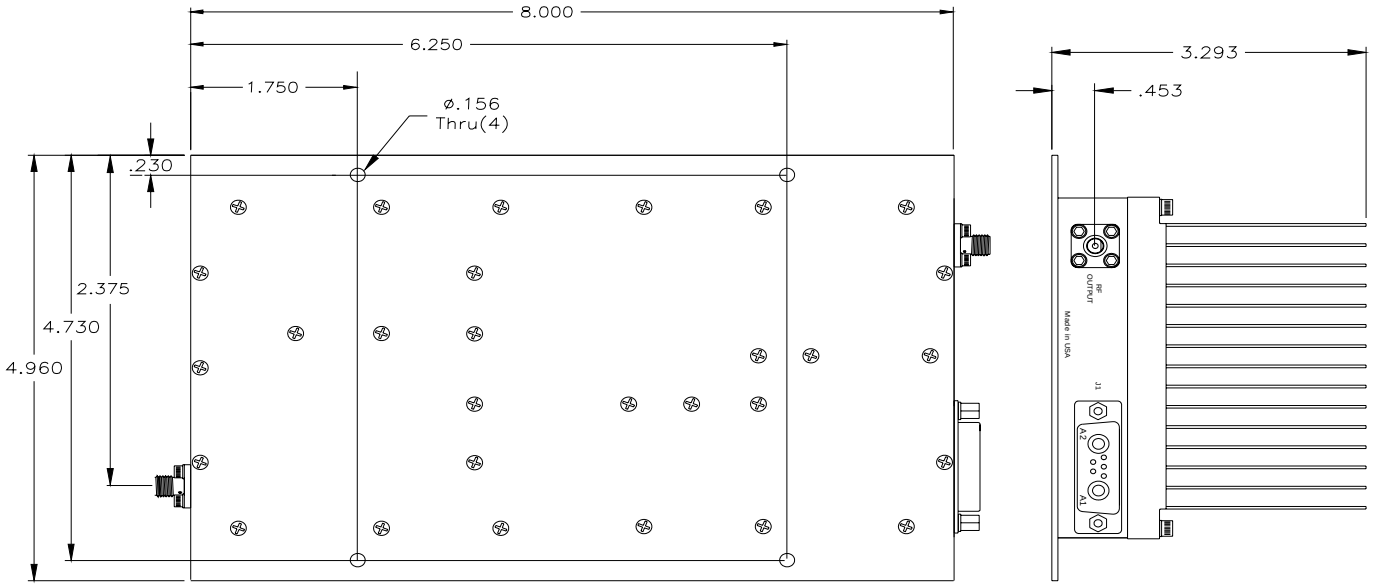
Model SM1819-52LD

1805 - 1880 MHz
160 Watt Power Amplifier

DIMENSIONS IN INCHES



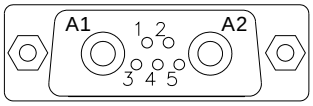
HEATSINK OPTION



1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

Model SM1819-52LD

1805 - 1880 MHz
160 Watt Power Amplifier



J1 CONNECTOR PINOUT

Pin	Description	Values
RF INPUT	Input Connector (SMA Female)	+1 dBm (max.)
RF OUTPUT	Output Connector (SMA Female)	+ 52 dBm @ P1dB (typ.)
A1	+VDC	+28V
A2	GND	--
1	TTL On/Off`	+5V = on / 0V = off (if equipped)
2	Reflected power detection	Set to 3.35 V @ 40dBm of CW reflected power Detector Slope: 60 mV / dB
3	GND	--
4	Temp	Temp in deg C = (Voltage on pin - .500)*100 e.g. .90 V = 40 deg C
5	Forward Power Detection	Set to 4.00 V @ 52 dBm of CW output power into 50 Ω Detector Slope: 60 mV / dB

1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com